

L Number	Hits	Search Text	DB	Time stamp
1	3	("5510508").PN.	USPAT; EPO; JPO; DERWENT	2001/12/20 07:33
2	627	("560/41").CCLS.	USPAT; EPO; JPO; DERWENT	2001/12/20 07:41
3	3	("5773640").PN.	USPAT; EPO; JPO; DERWENT	2001/12/20 07:34
5	145376	crystalliz\$	USPAT; EPO; JPO; DERWENT	2001/12/20 07:42
6	253	(("560/41").CCLS.) and crystalliz\$	USPAT; EPO; JPO; DERWENT	2001/12/20 07:42
7	12490	dimethylbut\$	USPAT; EPO; JPO; DERWENT	2001/12/20 07:43
8	15	((("560/41").CCLS.) and crystalliz\$) and dimethylbut\$	USPAT; EPO; JPO; DERWENT	2001/12/20 08:03
9	153364	X-ray	USPAT; EPO; JPO; DERWENT	2001/12/20 11:47
10	225	neohexyl\$	USPAT; EPO; JPO; DERWENT	2001/12/20 08:04
11	5	neohexyl\$ and (("560/41").CCLS.)	USPAT; EPO; JPO; DERWENT	2001/12/20 08:36
12	12645	neohexyl\$ or dimethylbut\$	USPAT; EPO; JPO; DERWENT	2001/12/20 08:36
13	30	(neohexyl\$ or dimethylbut\$) and (("560/41").CCLS.)	USPAT; EPO; JPO; DERWENT	2001/12/20 08:36
14	116254	seed	USPAT; EPO; JPO; DERWENT	2001/12/20 08:48
15	5	((neohexyl\$ or dimethylbut\$) and (("560/41").CCLS.)) and seed	USPAT; EPO; JPO; DERWENT	2001/12/20 08:37
16	177349	seed\$	USPAT; EPO; JPO; DERWENT	2001/12/20 13:38
17	4462	aspartame	USPAT; EPO; JPO; DERWENT	2001/12/20 08:54
18	88	(neohexyl\$ or dimethylbut\$) and aspartame	USPAT; EPO; JPO; DERWENT	2001/12/20 08:54
19	5	seed\$ and ((neohexyl\$ or dimethylbut\$) and aspartame)	USPAT; EPO; JPO; DERWENT	2001/12/20 11:47
20	3	("5480668").PN.	USPAT; EPO; JPO; DERWENT	2001/12/20 11:46
22	7924	seed\$ and X-ray	USPAT; EPO; JPO; DERWENT	2001/12/20 11:49
23	0		USPAT; EPO; JPO; DERWENT	2001/12/20 11:49
24	0		USPAT; EPO; JPO; DERWENT	2001/12/20 11:49
25	687	seed\$ and aspartame	USPAT; EPO; JPO; DERWENT	2001/12/20 11:50

26	10	(("560/41").CCLS.) and (seed\$ and aspartame)	USPAT; EPO; JPO; DERWENT	2001/12/20 11:50
27	1		USPAT	2001/12/20 11:51
28	1		USPAT	2001/12/20 11:52
29	2	5502238.URPN.	USPAT; EPO; JPO; DERWENT	2001/12/20 11:52
30	10511	seed adj crystal	USPAT; EPO; JPO; DERWENT	2001/12/20 13:33
31	18971	polymorph\$	USPAT; EPO; JPO; DERWENT	2001/12/20 13:33
32	69	(seed adj crystal) and polymorph\$	USPAT; EPO; JPO; DERWENT	2001/12/20 13:33
33	44	neotame	USPAT; EPO; JPO; DERWENT	2001/12/20 13:38
34	3	seed\$ and neotame	USPAT; EPO; JPO; DERWENT	2001/12/20 15:00
35	3	5728862.pn.	USPAT; EPO; JPO; DERWENT	2001/12/20 15:01

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	IS&R	L1	3	("5510508").PN.	USPAT; EPO; JPO; DERVENT	2001/12/20 07:33		
2	IS&R	L2	627	("560/41").CCLS.	USPAT; EPO; JPO; DERVENT	2001/12/20 07:41		
3	IS&R	L3	3	("5773640").PN.	USPAT; EPO; JPO; DERVENT	2001/12/20 07:34		
4	BRS	L5	14537 6	crystalliz\$	USPAT; EPO; JPO; DERVENT	2001/12/20 07:42		
5	BRS	L6	253	12 and 15	USPAT; EPO; JPO; DERVENT	2001/12/20 07:42		
6	BRS	L7	12490	dimethylbut\$	USPAT; EPO; JPO; DERVENT	2001/12/20 07:43		
7	BRS	L8	15	16 and 17	USPAT; EPO; JPO; DERVENT	2001/12/20 08:03		
8	BRS	L9	15336 4	X-ray	USPAT; EPO; JPO; DERVENT	2001/12/20 11:47		
9	BRS	L10	225	neohexyl\$	USPAT; EPO; JPO; DERVENT	2001/12/20 08:04		
10	BRS	L11	5	110 and 12	USPAT; EPO; JPO; DERVENT	2001/12/20 08:36		

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10	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
11	BRS	L12	12645	l10 or l7	USPAT; EPO; JPO; DERWE NT	2001/12/20 08:36		
12	BRS	L13	30	l12 and l2	USPAT; EPO; JPO; DERWE NT	2001/12/20 08:36		
13	BRS	L14	11625 4	seed	USPAT; EPO; JPO; DERWE NT	2001/12/20 08:48		
14	BRS	L15	5	l13 and l14	USPAT; EPO; JPO; DERWE NT	2001/12/20 08:37		
15	BRS	L16	17734 9	seed\$	USPAT; EPO; JPO; DERWE NT	2001/12/20 13:38		Truncation Overflow. Return string from Server is: 5`0`0`SEE
16	BRS	L17	4462	aspartame	USPAT; EPO; JPO; DERWE NT	2001/12/20 08:54		
17	BRS	L18	88	l12 and l17	USPAT; EPO; JPO; DERWE NT	2001/12/20 08:54		
18	BRS	L19	5	l16 and l18	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:47		
19	IS&R	L20	3	("5480668").PN.	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:46		
20	BRS	L22	7924	l16 and l9	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:49		

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15	1
16	0
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
21	BRS	L23	0	116 and 14	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:49		
22	BRS	L24	0	19 and 14	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:49		
23	BRS	L25	687	116 and 117	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:50		
24	BRS	L26	10	12 and 125	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:50		
25	BRS	L27	1	"5502238".PN.	USPAT	2001/12/20 11:51		
26	BRS	L28	1	"5502238".PN.	USPAT	2001/12/20 11:52		
27	BRS	L29	2	5502238.URPN.	USPAT; EPO; JPO; DERWE NT	2001/12/20 11:52		
28	BRS	L30	10511	seed adj crystal	USPAT; EPO; JPO; DERWE NT	2001/12/20 13:33		
29	BRS	L31	18971	polymorph\$	USPAT; EPO; JPO; DERWE NT	2001/12/20 13:33		
30	BRS	L32	69	130 and 131	USPAT; EPO; JPO; DERWE NT	2001/12/20 13:33		
31	BRS	L33	44	neotame	USPAT; EPO; JPO; DERWE NT	2001/12/20 13:38		

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21	0
22	0
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26	0
27	0
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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
32	BRS	L34	3	116 and 133	USPAT; EPO; JPO; DERVENT	2001/12/20 15:00		
33	BRS	L35	3	5728862.pn.	USPAT; EPO; JPO; DERVENT	2001/12/20 15:01		

		Err ors
32	0	
33	0	

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NEWS 3	Feb 06 Engineering Information Encompass files have new names
NEWS 4	Feb 16 TOXLINE no longer being updated
NEWS 5	Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6	Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7	May 07 DGENE Reload
NEWS 8	Jun 20 Published patent applications (A1) are now in USPATFULL
NEWS 9	JUL 13 New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS 10	Aug 23 In-process records and more frequent updates now in MEDLINE
NEWS 11	Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12	Aug 23 Adis Newsletters (ADISNEWS) now available on STN
NEWS 13	Sep 17 IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS 14	Oct 09 Korean abstracts now included in Derwent World Patents Index
NEWS 15	Oct 09 Number of Derwent World Patents Index updates increased
NEWS 16	Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 17	Oct 22 Over 1 million reactions added to CASREACT
NEWS 18	Oct 22 DGENE GETSIM has been improved
NEWS 19	Oct 29 AAASD no longer available
NEWS 20	Nov 19 New Search Capabilities USPATFULL and USPAT2
NEWS 21	Nov 19 TOXCENTER(SM) - new toxicology file now available on STN
NEWS 22	Nov 29 COPPERLIT now available on STN
NEWS 23	Nov 29 DWPI revisions to NTIS and US Provisional Numbers
NEWS 24	Nov 30 Files VETU and VETB to have open access
NEWS 25	Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 26	Dec 10 DGENE BLAST Homology Search
NEWS 27	Dec 17 WELDASEARCH now available on STN
NEWS 28	Dec 17 STANDARDS now available on STN
NEWS 29	Dec 17 New fields for DPCI
NEWS 30	Dec 19 CAS Roles modified
NEWS 31	Dec 19 1907-1946 data and page images added to CA and CAplus
NEWS EXPRESS	August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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=> file caplus
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FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
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FILE LAST UPDATED: 19 Dec 2001 (20011219/ED)

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=> aspartame
2544 ASPARTAME
6 ASPARTAMES

L1 2544 ASPARTAME
(ASPARTAME OR ASPARTAMES)

=> dimethylbutyl
L2 1168 DIMETHYLBUTYL

=> 11 and 12
L3 40 L1 AND L2

=> seed?
L4 202700 SEED?

=> 13 and 14
L5 5 L3 AND L4

=> d 15 1-5 ti

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Pharmaceutical compositions containing neotame

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Nutraceuticals having N-[N-(3,3-dimethylbutyl)-L-.alpha.-aspartyl]-L-phenylalanine 1-methyl ester

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Cereals and cereal-based food sweetened with neotame

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Crystallization processes of stable crystals of **aspartame** derivatives

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Cocrystallization of sugar and n-[n-(3,3-dimethylbutyl)-1-.alpha.-aspartyl]-L-phenylalanine 1-methyl ester

=> d 15 4-5 ti

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Crystallization processes of stable crystals of **aspartame** derivatives

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Cocrystallization of sugar and n-[n-(3,3-dimethylbutyl)-1-.alpha.-aspartyl]-L-phenylalanine 1-methyl ester

=> d 15 4-5 ti fbib abs

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Crystallization processes of stable crystals of **aspartame** derivatives

AN 2000:314715 CAPLUS
DN 132:321237
TI Crystallization processes of stable crystals of **aspartame** derivatives

IN Kawahara, Shigeru; Kishishita, Akihiro; Nagashima, Kazutaka; Takemoto, Tadashi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000026234	A1	20000511	WO 1999-JP6082	19991101
	W: BR, CA, CN, HU, KR, MX, RU, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				JP 1998-310225 A	19981030
				JP 1998-310226 A	19981030
JP	2000136196	A2	20000516	JP 1998-310225	19981030
JP	2000136197	A2	20000516	JP 1998-310226	19981030
BR	9914826	A	20011106	BR 1999-14826	19991101
				JP 1998-310225 A	19981030
				JP 1998-310226 A	19981030
				WO 1999-JP6082 W	19991101

AB A crystn. process for forming a stable crystal of N-(3,3-dimethylbutyl)-L-.alpha.-aspartyl-L-phenylalanine Me ester, comprises using either water or a mixt. of water with a lower alc. as the crystg. solvent and controlling the crystn. point to .gtoreq. 30.degree.; and another crystn. process comprises using either water or a mixt. of water with a lower alc. as the crystg. solvent and using as the seed crystal, a crystal of N-(3,3-dimethylbutyl)-APM exhibiting peculiar peaks of diffracted x-ray at least at diffraction angles (2 .theta., CuK.alpha. ray) of 6.0.degree., 24.8.degree., 8.2.degree. and 16.5.degree. to thereby crystallize the above objective crystal preferentially. These crystn. processes enable the const. formation of stable crystals of N-(3,3-dimethylbutyl)-APM at a low cost.

RE.CNT 18

RE

- (1) Ajinomoto Co Inc; JP 04346997 A CAPLUS
- (2) Ajinomoto Co Inc; EP 514939 A1 1992 CAPLUS
- (3) Anon; US 5248806 A CAPLUS
- (7) Nofre Claude; FR 2719590 A CAPLUS
- (8) Nofre Claude; FR 2719591 A CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS
TI Cocrystallization of sugar and n-[n-(3,3-dimethylbutyl)-1-.alpha.-aspartyl]-1-phenylalanine 1-methyl ester
AN 2000:190873 CAPLUS
DN 132:221732
TI Cocrystallization of sugar and n-[n-(3,3-dimethylbutyl)-1-.alpha.-aspartyl]-1-phenylalanine 1-methyl ester
IN Fotos, Jim; Bishay, Ihab E.; Prakash, Indra; Wachholder, Kurt; Desai, Nitin
PA Nutrasweet Co., USA
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000015050	A1	20000323	WO 1999-US21476	19990916
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,				

SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 1998-154568 A 19980917
 US 6214402 B1 20010410 US 1998-154568 19980917
 AU 9961505 A1 20000403 AU 1999-61505 19990916
 US 1998-154568 A 19980917
 WO 1999-US21476W 19990916
 EP 1139794 A1 20011010 EP 1999-948295 19990916
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 US 1998-154568 A 19980917
 WO 1999-US21476W 19990916
 AB Cocrystn. of N-[N-(3,3-dimethylbutyl)-1-.alpha.-aspartyl]-L-
 phenylalanine 1-Me ester (neotame) with sugar (sucrose) in various ratios
 is achieved. Thus, a sucrose soln. (195 g/100 mL) is heated and
 seeded with 0.225 g neotame and 5 g sucrose to afford a product
 that was sugar cocrystd. with neotame. The sugar cocrystd. sweetener is
 very sol. in water and has no dusting problems.
 RE.CNT 4
 RE
 (1) Ajinomoto KK; JP 59063158 A 1984 CAPLUS
 (2) Nofre, C; US 5480668 A 1996 CAPLUS
 (3) Shiyouwa Sangyo KK; JP 60114169 A 1985 CAPLUS
 (4) The Nutrasweet Company; WO 9930576 A 1999 CAPLUS

=> d his

(FILE 'HOME' ENTERED AT 11:35:04 ON 20 DEC 2001)

FILE 'CAPLUS' ENTERED AT 11:35:12 ON 20 DEC 2001
 L1 2544 ASPARTAME
 L2 1168 DIMETHYLBUTYL
 L3 40 L1 AND L2
 L4 202700 SEED?
 L5 5 L3 AND L4

=> neohexyl
 L6 60 NEOHEXYL

=> neohexyl?
 L7 73 NEOHEXYL?

=> 17 and 11
 L8 3 L7 AND L1

=> 18 not 15
 L9 3 L8 NOT L5

=> d 19 1-3 ti

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS
 TI Use of additives to modify the taste characteristics of N-neohexyl
 -.alpha.-aspartyl-L-phenylalanine methyl ester
 L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS
 TI Use of N-neohexyl-.alpha.-aspartyl-L-phenylalanine methyl ester
 as a flavor modifier

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS
TI A method for the preparation of N-neohexyl-.alpha.-aspartyl-L-phenylalanine methyl ester from imidazolidin-4-one intermediates

=> x-ray
1213031 X
781394 RAY
156593 RAYS
843513 RAY
(RAY OR RAYS)
L10 630673 X-RAY
(X(W)RAY)

=> l10 and l3
L11 4 L10 AND L3

=> d l11 1-4 ti

L11 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS
TI Investigation of Polymorphism in **Aspartame** and Neotame Using Solid-State NMR Spectroscopy

L11 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS
TI Crystallization processes of stable crystals of **aspartame** derivatives

L11 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS
TI Novel **aspartame** derivative crystal and process for producing the same

L11 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS
TI Novel **aspartame** derivative crystal and process for producing the same

=> d l11 1,3,4 ti fbbib abs

L11 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS
TI Investigation of Polymorphism in **Aspartame** and Neotame Using Solid-State NMR Spectroscopy
AN 2000:620337 CAPLUS
DN 133:349355
TI Investigation of Polymorphism in **Aspartame** and Neotame Using Solid-State NMR Spectroscopy
AU Zell, M. T.; Padden, B. E.; Grant, D. J. W.; Schroeder, S. A.; Wachholder,
K. L.; Prakash, I.; Munson, E. J.
CS Department of Chemistry, University of Minnesota, Minneapolis, MN, 55455,
USA
SO Tetrahedron (2000), 56(36), 6603-6616
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal
LA English
AB We have been studying the artificial sweeteners **aspartame** (1-aspartyl-1-phenylalanine Me ester) and neotame (N-(3,3-dimethylbutyl)-1-aspartyl-1-phenylalanine Me ester) as compds. which exhibit polymorphism. ¹³C CP/MAS NMR shows that **aspartame** exists in three distinct forms at room temp., depending on prepn.

conditions. For two of the forms, there exists three resonances for each carbon, indicating three crystallog. inequivalent sites and therefore three distinct conformations and/or arrangements of **aspartame** mols. within the unit cell. Two-dimensional exchange spectroscopy using high-speed MAS and very high-power 1H decoupling on uniformly 13C labeled **aspartame** is a very powerful tool for unambiguously assigning each resonance in the NMR spectrum of **aspartame**. Even for forms of **aspartame** that possesses multiple crystallog. inequivalent sites, it is possible to identify connectivities between the nuclei of each conformation and/or arrangement of mols. using two-dimensional NMR techniques. 13C CP/MAS NMR also shows that neotame exists in multiple solid forms. The most stable form of neotame under ambient conditions is a monohydrate. However, other forms can be prep'd. by heating or using reduced pressures. High-speed magic-angle spinning can cause a change in polymorphic forms. Three different forms were produced upon spinning at 29 kHz for several days. The monohydrate was identified as the second form produced. Also, altering the crystn. and drying conditions can generate mixts. of the solid forms of neotame. When the monohydrate form of neotame was heated under vacuum, a mixt. of anhydrate forms was produced. In the reconversion to the monohydrate upon exposure to moisture under ambient conditions no significant changes were obsd. in

the

powder X-ray diffraction patterns during part of the reconversion process. This suggests that no change in form had occurred. The 13C CP/MAS NMR spectra, however, indicated the presence of many forms of neotame during the reconversion. One possible reason that solid-state NMR spectroscopy detected the changes in forms and powder X-ray diffraction did not is that the conformation of the neotame mols. changes between forms but the unit cell parameters do not change significantly.

RE.CNT 47

RE

- (1) Andrew, E; Prog NMR Spectrosc 1971, V8, P1 CAPLUS
- (2) Anon; US 5510508 CAPLUS
- (3) Anon; US 5728862 CAPLUS
- (4) Anwar, J; J Pharm Sci 1989, V78, P337 CAPLUS
- (5) Bennett, A; J Chem Phys 1992, V96, P8624 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS
TI Novel **aspartame** derivative crystal and process for producing the same
AN 1999:736740 CAPLUS
DN 131:321817
TI Novel **aspartame** derivative crystal and process for producing the same
IN Kishishita, Akihiro; Nagashima, Kazutaka; Ishida, Hirotoshi; Nagai, Takeshi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9958554	A1	19991118	WO 1999-JP2200	19990426
	W: BR, CA, CN, HU, KR, MX, RU, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

JP 1998-125992 A 19980508

JP 11322788	A2	19991124	JP 1998-125992	19980508
BR 9910298	A	20010130	BR 1999-10298	19990426
			JP 1998-125992 A	19980508
			WO 1999-JP2200 W	19990426
EP 1076064	A1	20010214	EP 1999-917152	19990426
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
			JP 1998-125992 A	19980508
			WO 1999-JP2200 W	19990426

AB A process for producing crystals of a Me ester of N-[N-(3,3-dimethylbutyl)-L-.alpha.-aspartyl]-L-phenylalanine which comprises pptg. the ester from an aq. soln. thereof at a crystn. temp. of 25 >C or lower, further cooling the soln. if desired, subsequently sepg. the pptd. crystals (B-form crystals) by solid-liq. sepn., and then drying the crystals. The thus-dried crystals are novel crystals (D-form crystals) of the ester which have an excellent rate of dissoln. These crystals, when examd. by x-ray powder diffractometry, have characteristic x-ray diffraction peaks at least at diffraction angles of 5.4>, 8.4>, 18.8>, and 17.6> (2<j, CuK. α . line).

RE.CNT 14

RE

- (1) Ajinomoto Co, Inc; JP 02-243699 A 1990 CAPLUS
- (2) Ajinomoto Co, Inc; JP 04-346769 A 1992 CAPLUS
- (3) Anon; EP 362706 A1 CAPLUS
- (4) Anon; EP 405273 A1 CAPLUS
- (5) Anon; EP 514937 A1 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS
 TI Novel **aspartame** derivative crystal and process for producing the same
 AN 1999:736738 CAPLUS
 DN 131:321816
 TI Novel **aspartame** derivative crystal and process for producing the same
 IN Kishishita, Akihiro; Nagashima, Kazutaka; Ishida, Hirotoshi; Nagai, Takeshi
 PA Ajinomoto Co., Inc., Japan
 SO PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9958553	A1	19991118	WO 1999-JP2199	19990426
				W: BR, CA, CN, HU, KR, MX, RU, US	
				RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE	
					JP 1998-125991 A 19980508
					JP 1998-207605 A 19980723
	JP 2000026496	A2	20000125	JP 1998-207605	19980723
				JP 1998-125991 A 19980508	
	BR 9910303	A	20010130	BR 1999-10303	19990426
				JP 1998-125991 A 19980508	
				JP 1998-207605 A 19980723	
				WO 1999-JP2199 W 19990426	
	EP 1076063	A1	20010214	EP 1999-917151	19990426
				R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,	

IE, FI

JP 1998-125991 A 19980508
JP 1998-207605 A 19980723
WO 1999-JP2199 W 19990426

AB A Me ester of N-[N-(3,3-dimethylbutyl)-L-.alpha.-aspartyl]-L-phenylalanine (A-form crystals) having characteristic x-ray diffraction peaks, e.g., at diffraction angles of at least 6.0>, 24.8>, 8.2>, and 16.5> (2<j, CuK.alpha. line) is dried to a water content below 3%. The thus-dried crystals are novel crystals (C-form crystals) of the Me ester of N-[N-(3,3-dimethylbutyl)-L-.alpha.-aspartyl]-L-phenylalanine which have an excellent rate of dissoln. These crystals, when examd. by x-ray powder diffractometry, have characteristic x-ray diffraction peaks at least at diffraction angles of 7.1>, 19.8>, 17.3>, and 17.7> (2<j, CuK.alpha. line). When the C-form crystals (av. size, 100-1400 .mu.m) are in the form of granules, they have further improved solv.

RE.CNT 23

RE

- (1) Ajinomoto Co Inc; JP 59-172444 A 1984 CAPLUS
- (2) Ajinomoto Co Inc; JP 60-37949 A 1985 CAPLUS
- (3) Ajinomoto Co Inc; JP 63-177774 A 1988 CAPLUS
- (4) Ajinomoto Co Inc; JP 63-33396 A 1988 CAPLUS
- (5) Ajinomoto Co, Inc; JP 03-204895 A 1991 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> crystal
927171 CRYSTAL
524584 CRYSTALS
L12 1174833 CRYSTAL
(CRYSTAL OR CRYSTALS)

=> d his

(FILE 'HOME' ENTERED AT 11:35:04 ON 20 DEC 2001)

FILE 'CAPLUS' ENTERED AT 11:35:12 ON 20 DEC 2001

L1 2544 ASPARTAME
L2 1168 DIMETHYLBUTYL
L3 40 L1 AND L2
L4 202700 SEED?
L5 5 L3 AND L4
L6 60 NEOHEXYL
L7 73 NEOHEXYL?
L8 3 L7 AND L1
L9 3 L8 NOT L5
L10 630673 X-RAY
L11 4 L10 AND L3
L12 1174833 CRYSTAL

=> l14 and l12
L13 15450 L4 AND L12

=> l10 and l13
L14 1332 L10 AND L13

=> l14 and l11
L15 2 L14 AND L1

=> d l15 1-2 ti fbib abs

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS
 TI Crystallization processes of stable **crystals** of
aspartame derivatives
 AN 2000:314715 CAPLUS
 DN 132:321237
 TI Crystallization processes of stable **crystals** of
aspartame derivatives
 IN Kawahara, Shigeru; Kishishita, Akihiro; Nagashima, Kazutaka; Takemoto,
 Tadashi
 PA Ajinomoto Co., Inc., Japan
 SO PCT Int. Appl., 24 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000026234	A1	20000511	WO 1999-JP6082	19991101
	W: BR, CA, CN, HU, KR, MX, RU, US			JP 1998-310225 A	19981030
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			JP 1998-310226 A	19981030
JP	2000136196	A2	20000516	JP 1998-310225	19981030
JP	2000136197	A2	20000516	JP 1998-310226	19981030
BR	9914826	A	20011106	BR 1999-14826	19991101
				JP 1998-310225 A	19981030
				JP 1998-310226 A	19981030
				WO 1999-JP6082 W	19991101

AB A crystn. process for forming a stable **crystal** of
 N-(3,3-dimethylbutyl)-L-.alpha.-aspartyl-L-phenylalanine Me ester,
 comprises using either water or a mixt. of water with a lower alc. as the
 crystg. solvent and controlling the crystn. point to .gtoreq. 30.degree.;
 and another crystn. process comprises using either water or a mixt. of
 water with a lower alc. as the crystg. solvent and using as the
seed crystal, a **crystal** of
 N-(3,3-dimethylbutyl)-APM exhibiting peculiar peaks of diffracted
 x-ray at least at diffraction angles (2 .theta.,
 CuK.alpha. ray) of 6.0.degree., 24.8.degree., 8.2.degree. and
 16.5.degree.
 to thereby crystallize the above objective **crystal**
 preferentially. These crystn. processes enable the const. formation of
 stable **crystals** of N-(3,3-dimethylbutyl)-APM at a low cost.

RE.CNT 18
 RE
 (1) Ajinomoto Co Inc; JP 04346997 A CAPLUS
 (2) Ajinomoto Co Inc; EP 514939 A1 1992 CAPLUS
 (3) Anon; US 5248806 A CAPLUS
 (7) Nofre Claude; FR 2719590 A CAPLUS
 (8) Nofre Claude; FR 2719591 A CAPLUS
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS
 TI The "bundle-like" **crystals** in **aspartame**
 crystallization
 AN 1989:495772 CAPLUS
 DN 111:95772
 TI The "bundle-like" **crystals** in **aspartame**
 crystallization
 AU Kishimoto, S.; Nagashima, N.; Naruse, M.; Toyokura, K.
 CS Cent. Res. Lab., Ajinomoto Co., Inc., Kawasaki, 210, Japan

SO Process Technol. Proc. (1989), 6(Ind. Cryst. 87), 511-14
CODEN: PTPREM
DT Journal
LA English
AB Batch cooling crystn. of **aspartame** without stirring, with rapid cooling and high initial concn. of feed soln. resulted in the prodn. of large rod-like **crystals** in which several needle **crystals** appeared to be bundles together under SEM. These bundle-like **crystals** were difficult to grow in general industrial crystallizer, such as a stirred tank or a fluidized bed. X-ray diffraction data suggested that the bundle-like **crystal** of **aspartame** was not an agglomerate but a sort of polysynthetic twin; however, crystallites grown divergently on a seeded bundle-like **crystal** under a stirred condition were agglomerate since they had not been able to keep the twinning structure caused by increasing of degree of disorder between the bundled **crystals**.

=> DIS HIST

(FILE 'HOME' ENTERED AT 11:35:04 ON 20 DEC 2001)

FILE 'CAPLUS' ENTERED AT 11:35:12 ON 20 DEC 2001

L1 2544 ASPARTAME
L2 1168 DIMETHYLBUTYL
L3 40 L1 AND L2
L4 202700 SEED?
L5 5 L3 AND L4
L6 60 NEOHEXYL
L7 73 NEOHEXYL?
L8 3 L7 AND L1
L9 3 L8 NOT L5
L10 630673 X-RAY
L11 4 L10 AND L3
L12 1174833 CRYSTAL
L13 15450 L4 AND L12
L14 1332 L10 AND L13
L15 2 L14 AND L1

=>

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NEWS 3	Feb 06 Engineering Information Encompass files have new names
NEWS 4	Feb 16 TOXLINE no longer being updated
NEWS 5	Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6	Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7	May 07 DGENE Reload
NEWS 8	Jun 20 Published patent applications (A1) are now in USPATFULL
NEWS 9	JUL 13 New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS 10	Aug 23 In-process records and more frequent updates now in MEDLINE
NEWS 11	Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12	Aug 23 Adis Newsletters (ADISNEWS) now available on STN
NEWS 13	Sep 17 IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS 14	Oct 09 Korean abstracts now included in Derwent World Patents Index
NEWS 15	Oct 09 Number of Derwent World Patents Index updates increased
NEWS 16	Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 17	Oct 22 Over 1 million reactions added to CASREACT
NEWS 18	Oct 22 DGENE GETSIM has been improved
NEWS 19	Oct 29 AAASD no longer available
NEWS 20	Nov 19 New Search Capabilities USPATFULL and USPAT2
NEWS 21	Nov 19 TOXCENTER(SM) - new toxicology file now available on STN
NEWS 22	Nov 29 COPPERLIT now available on STN
NEWS 23	Nov 29 DWPI revisions to NTIS and US Provisional Numbers
NEWS 24	Nov 30 Files VETU and VETB to have open access
NEWS 25	Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 26	Dec 10 DGENE BLAST Homology Search
NEWS 27	Dec 17 WELDASERACH now available on STN
NEWS 28	Dec 17 STANDARDS now available on STN
NEWS 29	Dec 17 New fields for DPCI
NEWS 30	Dec 19 CAS Roles modified
NEWS 31	Dec 19 1907-1946 data and page images added to CA and CAplus
NEWS EXPRESS	August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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=> +controlling polymorphism

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FILE LAST UPDATED: 19 Dec 2001 (20011219/ED)

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=> controlling polymorphism
6 CONROLLING
68980 POLYMORPHISM
16323 POLYMORPHISMS
72644 POLYMORPHISM
(POLYMORPHISM OR POLYMORPHISMS)
L1 0 CONROLLING POLYMORPHISM
(CONROLLING (W) POLYMORPHISM)

=> polymorphism
68980 POLYMORPHISM
16323 POLYMORPHISMS
L2 72644 POLYMORPHISM
(POLYMORPHISM OR POLYMORPHISMS)

=> seed
102816 SEED
75101 SEEDS
L3 141941 SEED
(SEED OR SEEDS)

=> l2 and l3
L4 927 L2 AND L3

=> crystal structure
927171 CRYSTAL
524584 CRYSTALS
1174833 CRYSTAL
(CRYSTAL OR CRYSTALS)
2068583 STRUCTURE
542491 STRUCTURES
2323913 STRUCTURE
(STRUCTURE OR STRUCTURES)
L5 357788 CRYSTAL STRUCTURE
(CRYSTAL (W) STRUCTURE)

=> l4 and l5
L6 10 L4 AND L5

=> d 16 1-10

L6 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2001 ACS
AN 2001:385260 CAPLUS
DN 135:148815
TI Crystallization and preliminary x-ray studies of snake gourd lectin:
homology with type II ribosome-inactivating proteins
AU Manoj, N.; Jeyaprakash, A. Arockia; Pratap, J. V.; Komath, Sneha Sudha;
Kenoth, Roopa; Swamy, Musti. J.; Vijayan, M.
CS Molecular Biophysics Unit, Indian Institute of Science, Bangalore, 560
012, India
SO Acta Crystallogr., Sect. D: Biol. Crystallogr. (2001), D57(6), 912-914
CODEN: ABCRE6; ISSN: 0907-4449
PB Munksgaard International Publishers Ltd.
DT Journal
LA English
RE.CNT 27
RE
(1) Bostwick, D; Plant Mol Biol 1994, V26, P887 CAPLUS
(2) Bouckaert, J; Curr Opin Struct Biol 1999, V9, P572 CAPLUS
(3) Brunger, A; Acta Cryst 1998, VD54, P905 CAPLUS

(4) Falasca, A; FEBS Lett 1989, V246, P159 CAPLUS
(5) Jones, T; Acta Cryst 1991, VA47, P110 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2001 ACS
AN 1996:573709 CAPLUS
DN 125:284550
TI Behavior of thiazole acid polymorphs in methanol-water mixed solution
AU Koga, Keiichi; Kawakami, Ryouichi; Kagara, Kooji
CS Technol. Development Lab., Fujisawa Pharmaceutical Co., Ltd., Osaka, 532, Japan
SO Kagaku Kogaku Ronbunshu (1996), 22(5), 1174-1179
CODEN: KKRBAW; ISSN: 0386-216X
DT Journal
LA Japanese

L6 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS
AN 1994:567471 CAPLUS
DN 121:167471
TI Manufacture of polymorphic single crystals
IN Nakatani, Hiroyuki; Hidaka, Takahiro; Hayashi, Hideki
PA Sekisui Chemical Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06087685	A2	19940329	JP 1992-234432	19920902

L6 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2001 ACS
AN 1993:465933 CAPLUS
DN 119:65933
TI Cloning, expression, and crystallization of jack bean (*Canavalia ensiformis*) canavalin
AU Ng, Joseph D.; Ko, Tzu Ping; McPherson, Alexander
CS Dep. Biochem., Univ. California, Riverside, CA, 92521, USA
SO Plant Physiol. (1993), 101(3), 713-28
CODEN: PLPHAY; ISSN: 0032-0889
DT Journal
LA English

L6 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS
AN 1990:137777 CAPLUS
DN 112:137777
TI Seeding effects on solidification behavior of cocoa butter and dark chocolate. I. Kinetics of solidification
AU Hachiya, Iwao; Koyano, Tetsuo; Sato, Kiyotaka
CS Food Res. Dev. Lab., Maiji Seika Kaisha Ltd., Sakado, 350-02, Japan
SO JAOCs, J. Am. Oil Chem. Soc. (1989), 66(12), 1757-62
CODEN: JJASDH
DT Journal
LA English

L6 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2001 ACS
AN 1989:448450 CAPLUS
DN 111:48450
TI The crystal growth of bismuth tellurite (Bi₂Te₄O₁₁) from the melt and its polymorphism
AU Astaf'ev, S. A.; Abdullaev, A. A.; Dolgikh, V. A.; Popovkin, B. A.

CS Mosk. Gos. Univ., Moscow, USSR
 SO Izv. Akad. Nauk SSSR, Neorg. Mater. (1989), 25(5), 870-2
 CODEN: IVNMAW; ISSN: 0002-337X
 DT Journal
 LA Russian

L6 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2001 ACS
 AN 1976:6546 CAPLUS
 DN 84:6546
 TI Polymorphism of copper phthalocyanine
 AU Horn, Dieter; Honigmann, Berthold
 CS Hauptlab., BASF A.-G., Ludwigshafen, Ger.
 SO Fatipec Congr. (1974), 12, 181-9
 CODEN: FAPVAP
 DT Journal
 LA German

L6 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2001 ACS
 AN 1975:436152 CAPLUS
 DN 83:36152
 TI Double molybdates and tungstates with the composition $M_5Bi(EO_4)_4$, M = potassium or rubidium, E = molybdenum or tungsten
 AU Klevtsov, P. V.; Vinokurov, V. A.
 CS Inst. Neorg. Khim., Novosibirsk, USSR
 SO Izv. Akad. Nauk SSSR, Neorg. Mater. (1975), 11(2), 387-8
 CODEN: IVNMAW
 DT Journal
 LA Russian

L6 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2001 ACS
 AN 1971:35443 CAPLUS
 DN 74:35443
 TI Crystal growth and dimorphism of lithium iodate $LiIO_3$
 AU Umezawa, Tetsutaro; Ninomiya, Yuichi; Tatuoka, Sizuo
 CS NHK Tech. Res. Lab., Tokyo, Japan
 SO J. Appl. Crystallogr. (1970), 3(Pt. 5), 417
 CODEN: JACGAR
 DT Journal
 LA English

L6 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2001 ACS
 AN 1945:6871 CAPLUS
 DN 39:6871
 OREF 39:1067e-g
 TI Thermal properties of fats and oils. IV. Some observations on the polymorphism and x-ray diffraction characteristics of tristearin and a highly hydrogenated cotton-seed oil
 AU Bailey, A. E.; Jefferson, M. E.; Kreeger, Florence B.; Bauer, S. T.
 SO Oil & Soap (1945), 22, 10-13
 DT Journal
 LA Unavailable

=> logoff hold
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
20.96	21.11

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